

Serial No. 09/629,321
Amdt. dated June 7, 2004
Reply to Office Action of March 8, 2004

Attorney Docket No. PF01869NA

Amendments to the Claims:

1. through 3. (Canceled)

c/ 4. (Currently Amended) ~~The apparatus as claimed in claim 1~~ An apparatus comprising:

at least one sensor communicating sensor added information to a communication device within a network to control a power consumption level of the communication device, wherein the communication device uses a service discovery protocol to look for a fixed position sensor for additional sensor information to adjust the power consumption level of the communication device.

5. (Currently Amended) ~~The apparatus as claimed in claim 1~~ An apparatus comprising:

at least one sensor communicating sensor added information to a communication device within a network to control a power consumption level of the communication device, wherein the at least one sensor includes a motion sensor, the motion sensor being used to place the communication device in a stand-by power mode when the communication device is moving or to place the communication device in an active mode when the communication device is still.

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6. (Currently Amended) ~~The apparatus as claimed in claim 1~~ An apparatus comprising:
at least one sensor communicating sensor added information to a communication device
within a network to control a power consumption level of the communication device, wherein the
at least one sensor determines a position of the communication device and if the position of the
wireless communication device is an active position, the communication device is placed in an
active power mode and if the position of the communication device is an inactive position, the
communication device is placed in a stand-by power mode.

7. (Currently Amended) A wireless network comprising:
at least one master device, each of the at least one master devices being capable of
initiating an action or requesting a service on the wireless network; and
a plurality of slave devices wirelessly connected to each other and to a corresponding
master device, at least one of the plurality of slave devices or the master device including at least
one sensor, wherein processed sensor information from the at least one sensor is shared by each
of the plurality of slave devices and the corresponding master device,
wherein at least one of the plurality of slave devices uses the shared processed sensor
information to select an alternate master device.

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8. (Currently Amended) ~~The wireless network as claimed in claim 7~~ A wireless network comprising:

at least one master device, each of the at least one master devices being capable of initiating an action or requesting a service on the wireless network; and

a plurality of slave devices wirelessly connected to each other and to a corresponding master device, at least one of the plurality of slave devices or the master device including at least one sensor, wherein processed sensor information from the at least one sensor is shared by each of the plurality of slave devices and the corresponding master device,

wherein respective power levels of at least one of the plurality of slave devices or the corresponding master device are adjusted in accordance with the processed sensor information.

9. (Original) The wireless network as claimed in claim 7, wherein at least one of the plurality of slave devices uses a service discovery protocol to look for a fixed position sensor for additional sensor information, the additional sensor information being used to select an alternate master device.

10. (Canceled)

11. (Original) The wireless network as claimed in claim 7, further comprising a central controller connected to the at least one master device, wherein the central controller utilizes the processed sensor information to determine capacity allocation and device allocation of the plurality of slave devices and the corresponding master device to improve a capacity of the wireless network.

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12. (Original) The wireless network as claimed in claim 11, wherein the central controller utilizes the processed sensor information to adjust the device allocation of the plurality of slave devices and the corresponding master device to improve the capacity of the wireless network.

13. (Currently Amended) A method of improving battery life of a wireless communication device, comprising:

sensing environmental conditions within a predetermined distance of the wireless communication device with a plurality of coupled sensors;

determining a usage pattern match based on the sensed environmental conditions; and

adjusting a power consumption level of the wireless communication device in accordance with the usage pattern match, wherein the wireless communication device switches from a stand-by power mode to an active mode when the sensed environmental conditions satisfy a predetermined condition and automatically transmits a predetermined message to a predetermined device after the predetermined condition is satisfied.

14. (Original) The method as claimed in claim 13, wherein the plurality of sensors are selected from the group consisting of a motion sensor, a light sensor, a crowd sensor, a range sensor, a moisture sensor, an inertial sensor, an accelerometer sensor and a sound sensor.

15. through 21. (Canceled)

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22. (Currently Amended) ~~The apparatus of claim 1~~ An apparatus comprising:
at least one sensor communicating sensor added information to a communication device
within a network to adjust a network configuration of the network, wherein the network
configuration of the network is adjusted to readjust device allocation to a different device.
